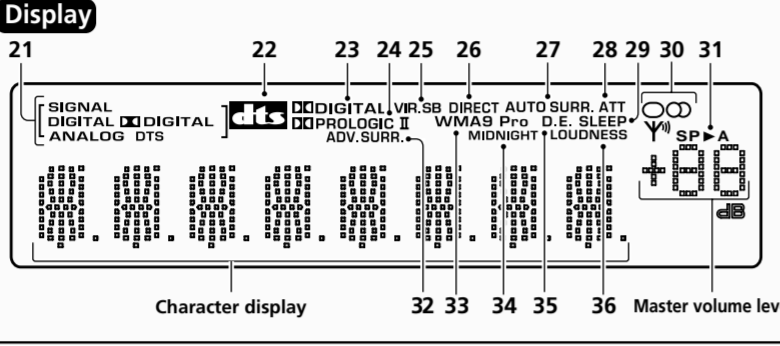


Note: Keep in mind the following when using the remote control:
- Make sure that there are no obstacles between the remote and the receiver sensor on the unit.
- The remote has a range of about 7 m (23 ft).



1 RECEIVER (STANDBY/ON)
Switches the receiver between standby and on.
2 LISTENING mode buttons
STANDARD: Press for Standard decoding and to switch between Pro Logic II options.
ADV.SURR.: Switches between the various surround modes.

10 MIDNIGHT/LOUDNESS
These features give you good sound at low volume levels when listening to movie (Midnight) or music (Loudness) sources. Press to switch between MIDNIGHT, LOUDNESS, and OFF.
11 MENU
Displays the disc menu of DVD-Video discs.
DIALOG E (DIALOGUE ENHANCEMENT)
This feature localizes dialog in the center channel to make it stand out from other background sounds in a TV or movie soundtrack.

16 TUNER controls
The TUNING +/- buttons can be used to find radio frequencies and the STATION +/- buttons can be used to select preset radio stations.
DISPLAY
Switches the display between station preset name and frequency.
CLASS
Switches between the three banks (classes) of station presets.
17 MPX
Use to switch between auto stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.

27 AUTO SURR.
Lights when the Auto Surround feature is switched on.
28 ATT
Lights when ANALOG ATT is used to attenuate (reduce) the level of the analog input signal.
29 SLEEP
Lights when the receiver is in sleep mode.
30 TUNER indicators
C / MONO
Lights when the mono mode is set using the MPX button.
CD / STEREO
Lights when a stereo FM broadcast is being received in auto stereo mode.
Y* / TUNED
Lights when a broadcast is being received.

Using the Quick Setup
You can use the Quick Setup to get your system up and running with just a few button presses. The receiver automatically makes the necessary settings after you have selected your room size and listening position.
If you want to make more specific settings, refer to The System Setup menu.
Use the front panel controls for the steps below.
1 Press STANDBY/ON to switch on.
2 Press QUICK SETUP.
3 Use the MULTI JOG dial to choose your room size.

Listening to your system
Important
- Certain features explained in this section will not be possible depending on the source (for example, PCM 88.2 kHz/96 kHz, DTS 96 kHz (24 bit) or WMA9 Pro sources).
Auto playback
The simplest, most direct listening option is the Auto Surround feature. With this, the receiver automatically detects what kind of source you're playing and selects multichannel or stereo playback as necessary.
While listening to a source, press STEREO for auto playback of a source.
Press repeatedly until AUTO SURR. shows briefly in the display (it will then show the decoding or playback format). Check the digital format indicators in the display to see how the source is being processed.

Setting the effect options
When using surround effects, there are a number of settings you can adjust.
1 Press EFFECT/CH SEL repeatedly to select the setting you want to adjust.
Depending on the current status / mode of the receiver, certain options may not appear. Check the table below for notes on this.
2 Use the LEVEL +/- buttons to set it as necessary.
See the table below for the options available for each setting. The defaults, if not stated, are listed in bold.
3 Press EFFECT/CH SEL again to adjust other settings.

Table with 3 columns: Setting, What it does, Options. Includes settings for Center Width, Dimension, Panorama, and Effect.

Using the Virtual Surround Back mode
Selecting this mode allows you to hear a virtual surround back channel through your surround speakers. For example, you can choose to listen to sources with no surround back channel information (for example, 5.1 encoded material) with emulated 6.1 encoding (VSB ON). Sometimes the material may sound better in the 5.1 format for which it was originally encoded. In this case you can simply switch it off (VSB OFF).
Press VSB MODE (front panel) to select a virtual surround back channel option.
Each press cycles through the options as follows:
- VSB ON - Virtual Surround Back is always used (for example, on 5.1 encoded material)
- VSB OFF - Virtual Surround Back mode is switched off
Note
- You can't use the Virtual Surround Back mode with headphones or with the STEREO / DIRECT mode.

Using the Sound Retriever
When audio data is removed during the compression process, sound quality often suffers from an uneven sound image. The Sound Retriever feature employs new DSP technology that helps bring CD quality sound back to compressed 2-channel audio by restoring sound pressure and smoothing jagged artifacts left over after compression.
While listening to a source, press S.RETRIEVER. Press repeatedly to switch between:
- RTRV1 ON - This option is engineered especially for portable digital audio players.
- RTRV2 ON - This option is engineered especially for portable digital radio devices (only applicable when using the FRONT AUDIO INPUT).
- OFF - Switches the Sound Retriever off.

Making receiver settings from the System Setup menu
The following section shows you how to make detailed settings to specify how you're using the receiver and also explains how to fine-tune individual speaker system settings to your liking.
1 Press RECEIVER on the remote control, then press the SETUP button.
2 Use the MULTI JOG dial to select the setting you want to adjust then press ENTER.
3 SP SETUP allows you to specify the distance and balance of the speakers you've connected:
CH LEVEL - Adjust overall balance of your speaker system.
SP DISTN. - Specify the distance of your speakers from the listening position.
OTHER allows you to make customized settings to reflect how you are using the receiver.
DRC - This setting specifies the amount of dynamic range adjustment to Dolby Digital and DTS movie soundtracks (use this when listening to surround sound at low volumes).
DUAL MONO - You can specify how dual mono encoded Dolby Digital soundtracks should be played (dual mono is sometimes used when two languages need to be sent to separate channels).
LFE ATT - Some Dolby Digital and DTS audio sources include ultra-low bass tones. Set the LFE attenuator as necessary to prevent the ultra-low bass tones from distorting the sound from the speakers.

Speaker Distance
1 Select 'SP DISTN.' from the SP SETUP menu.
2 Use the MULTI JOG dial to choose the speaker that you want then set the distance.
Use the MULTI JOG dial to adjust the distance of each speaker (in 10 cm (0.5 ft) increments).
3 When you're finished, press RETURN.
Tip
- For best surround sound, make sure the surround back speakers are the same distance from the listening position.
Dynamic Range Control Setup
Default setting: OFF
1 Select DRC from the OTHER setup menu.
2 Use the MULTI JOG dial to choose the setting that you want.
- OFF - No dynamic range adjustment (use when listening at higher volume).
- MID - Mid setting.
- MAX - Dynamic range is reduced (loud sounds are reduced in volume while quieter sounds are increased).
3 When you're finished, press RETURN.
Dual Mono Setup
Default setting: CH1
1 Select DUAL MONO from the OTHER setup menu.
2 Use the MULTI JOG dial to choose the setting that you want.
- CH1 - Only channel 1 is played
- CH2 - Only channel 2 is played
- CH1 CH2 - Both channels are played through the front speakers.
3 When you're finished, press RETURN.
Note
- This setting works only with dual mono encoded Dolby Digital and DTS soundtracks.
LFE Attenuator Setup
Default setting: ATT 0 dB
1 Select LFE ATT from the OTHER setup menu.
2 Use the MULTI JOG dial to choose the setting that you want.
- LFEATT 0 - No limiting (recommended setting)
- LFEATT 10 - 10 dB of limiting
- LFEATT ** - No sound from LFE channel
3 When you're finished, press RETURN.

Listening to the radio
The following steps show you how to tune in to FM and AM radio broadcasts and memorize the frequency for recall later.
1 Press AM or FM to select the tuner band.
2 Tune to a station.
There are three ways to do this:
- Automatic tuning - Press and hold TUNING +/- for about a second. Searching automatically stops at the next station.
- Manual tuning - To change the frequency one step at a time, press TUNING +/-
- High speed tuning - Press and hold TUNING +/- continuously.
If the signal is weak, press the MPX button to switch the receiver into mono reception mode.
Saving station presets
This receiver can memorize up to 30 stations, stored in three banks of 10 stations each.
1 Tune to a station you want to memorize.
2 Press TUNER EDIT to select 'ST. MEMORY'.
3 Press CLASS to select one of the three classes then press STATION (+/-) to select the station preset you want.
You can also use the MULTI JOG dial after pressing STATION (front panel) to select station presets.
4 Press ENTER to store the station.
Note
- When saving an FM frequency, the MPX setting is also stored.

Naming station presets
You can your station presets for easy recall.
1 Choose the preset you want to name. See Listening to station presets below.
2 Press TUNER EDIT to select 'ST. NAME'.
A cursor appears at the first character position.
3 Input the name you want then press ENTER.
Use the MULTI JOG dial (front panel) or the STATION +/- buttons (remote) to select characters, and ENTER to confirm. If no character is input, a space is input.
Tip
- Once you have named a station preset, you can press DISPLAY when listening to a station to switch the display between the name and the frequency.
Listening to station presets
You will need to have some presets stored to do this. See Saving station presets if you haven't done this already.
1 Press AM or FM to select the tuner.
2 Press CLASS to select the class in which the station is stored.
Press repeatedly to cycle through classes A, B and C.
3 Press STATION +/- to select the station preset you want.

Specifications
Amplifier section
- Continuous power output
Front: 100 W per channel (200 Hz to 20 kHz, 0.7% THD, 8 Ohm)
Center: 100 W (200 Hz to 20 kHz, 0.7% THD, 8 Ohm)
Surround: 100 W per channel (200 Hz to 20 kHz, 0.7% THD, 8 Ohm)
Subwoofer: 100 W (45 Hz to 200 Hz, 0.7% THD, 8 Ohm)
- RMS Power Output
Front: 144 W per channel (1 kHz, THD, 10%, 8 Ohm)
Center: 144 W (1 kHz, THD, 10%, 8 Ohm)
Surround: 144 W per channel (1 kHz, THD, 10%, 8 Ohm)
Subwoofer: 144 W (1 kHz, THD, 10%, 8 Ohm)
* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.
** Measured by Audio Spectrum Analyzer.

Troubleshooting
Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Take a look at the other components and electrical appliances being used, because sometimes the problem may lie there. If the trouble isn't sorted out even after going through the checks below, ask your nearest Pioneer authorized independent service company to carry out repair work.
Note
If the unit does not operate normally due to external effects such as static electricity, disconnect the power plug from the outlet and insert again to return to normal operating conditions.
Problem Remedy
- The power does not turn on.
- Connect the power plug to the wall outlet.
- Disconnect the power plug from the outlet, and insert again.
- Make sure there are no loose strands of speaker wire touching the rear panel. This could cause the receiver to shut off automatically.
- If the power shuts off automatically, take the unit to your nearest Pioneer authorized service center or your dealer for servicing.
- No sound is output when a function is selected.
- Make sure the component is connected correctly.
- Press MUTE on the remote control to turn muting off.
- Adjust the MASTER VOLUME.
- No image is output when a function is selected.
- Make sure the component is connected correctly.
- Select the correct component (use the INPUT SELECTOR buttons).
- Considerable noise in radio broadcasts.
- Tune in the correct frequency.
- Connect the antenna and adjust the direction and position for best reception.
- Route any loose cables away from the antenna terminals and wires.
- Fully extend the FM wire antenna, position for best reception, and secure to a wall.
- Connect an outdoor FM antenna.
- Connect an additional internal or external AM antenna.
- Turn off the equipment causing the noise or move it away from the receiver.
- Move antennas farther away from equipment causing the noise.
- Broadcast stations cannot be selected automatically.
- Connect an outdoor antenna.
- No sound from surround or center speakers.
- Connect the speakers properly.
- Refer to Channel level to check the speaker levels.
- No sound from subwoofer.
- The Dolby Digital or DTS source you are listening to may not have an LFE channel.
- Switch the LFE Attenuator Setup to LFEATT 0 or LFEATT 10.
- Noise during playback of a cassette deck.
- Move the cassette deck further from your receiver, until the noise disappears.
- No sound is output or a noise is output when software with DTS is played back.
- Set the digital volume level of the player to full, or to the neutral position.

Additional information
During a playback search, noise is output from a DTS compatible CD player.
- This is not a malfunction, but be sure to turn the volume down to prevent the output of loud noise from your speakers.
Can't operate the remote control.
- Replace the batteries.
- Operate within 7 m (23 ft.), 30° of the remote sensor on the front panel.
- Remove the obstacle or operate from another position.
- Avoid exposing the remote sensor on the front panel to direct light.
The display is dark or off.
- Press DIMMER on the remote control repeatedly to return to the default.

Resetting the main unit
Use this procedure to reset all the receiver's settings to the factory default. Use the front panel controls to do this.
1 Switch the receiver into standby.
2 While holding down the TONE button, press and hold the STANDBY/ON button for about three seconds.
3 When you see 'RESET?' appear in the display, press the ENTER button.
OK? shows in the display.
4 Press SETUP to confirm.
OK appears in the display to indicate that the receiver has been reset to the factory default settings.

Furnished Parts
Remote control: 1
AA/R6 dry cell batteries (to confirm system operation): 2
AM loop antenna: 1
FM wire antenna: 1
Mini-plug audio cable: 1
These operating instructions
Note
Specifications and the design are subject to possible modifications without notice, due to improvements.
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